

Abstract

A system for adding multiple GPE blocks (in addition to the system/root GPE block device) to a computing system by creating a device entry in the ACPI namespace, and using a _CRS object to describe the system resources consumed by the device is described. The GPE block device may then access associated hardware devices through a well known mechanism (either I/O or Memory Mapped accesses). By creating additional GPE block devices within the ACPI namespace, general purpose events may be delivered using more traditional hardware interrupt mechanisms than with existing systems (e.g., wiring GPE blocks together). Moreover, by putting GPE block devices in the ACPI namespace, hardware components having hardware registers may be "hot plugged" to the computing system.